CLAIMS:

- [1] An apparatus for injecting coiled tubing into a hole in the earth's surface comprising:
 - a frame having a front end and a back end;
 - a tubing storage spool removably mounted on said frame at said back end and having said coiled tubing stored thereon;
 - a mast pivotally mounted on said frame;
 - an injector reel rotatably mounted on said mast, said injector reel pivotable from a first stored position at said front end to a second tubing injecting position;
 - a drive mechanism attacked to said injector reel to rotate said injector reel; and
 - a hold down assembly mounted around a portion of the circumference of said injector reel for exerting a pressure against said coiled tubing over more than 90° of said injector reel when said injector reel is in said second operative position and said coiled tubing is directed between said hold down assembly and said circumference of said injector reel to provide positive engagement of said tubing by said injector reel when said injector reel is being rotated to pull said tubing off of said tubing storage spool or return said tubing to said tubing storage spool.

The apparatus of claim 1 wherein said hold down assembly

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90° of said injector reel when said injector reel is in said second operative position and said coiled tubing is directed between said hold down assembly and said dircumference of said injector reel to provide positive engagement of said tubing by said injector reel when said injector reel is being rotated to pull said tubing off of said tubing storage spool or return said tubing to said tubing said second tubing storage spool, injecting position positions said injector reel above said front end of said frame, and said colled tubing exits said apparatus at an angle less than 90° to said surface.

- 5. The apparatus of claim [1] 4 further comprising a first tubing stabilizer assembly mounted within said frame and a second tubing stabilizer mounted above said hole in said surface.
- 6. The apparatus of claim [1] 4 wherein said tubing storage spool is further removably mounted to an adjustable cradle frame having opposed pivotable bullnose arms.
- 7. The apparatus of claim [1] 4 wherein said opposed pivotable bullnose arms are horizontally slidably attached to said cradle frame to accept a range of storage spool widths.
- 8. The apparatus of claim [1] 4 wherein said opposed pivotable bullnose arms are vertically slidably attached to said cradle frame to accept a range of storage spool diameters.
- 9. The apparatus of claim [1] 4 wherein said drive mechanism

injector reel.]

storing said tubing on a tubing storage spool comprising:

rotating a reel;

exerting pressure against more than 90° of the circumference of said reel while running said tubing around a portion of said circumference to exert pressure against said tubing to cause positive engagement of said tubing by said reel; and

routing said tubing off of said reel onto said tubing storage spool, said tubing storage spool mounted on a cradle vertically and horizontally adjustable to accept varying spool widths and diameters.

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